AMENDMENTS

AMENDMENTS TO THE CLAIMS

- 1. (Currently Amended) A composition prepared from a plurality of materials comprising a multifunctional hydrophilic monomer with 2 or more functionalities, and comprising at least 2 acrylic groups but less than 5 acrylic groups and not more than 11 hydroxyl groups, a processing aid, a soybean protein composition, and a polyethoxy methacrylate, said multifunctional hydrophilic monomer contributing approximately 0.1 percent to approximately 10 percent by dry weight of said composition, said processing aid contributing approximately 1 percent to approximately 10 percent by dry weight of said composition, and said polyethoxy methacrylate contributing an amount up to a balance by dry weight of said composition, wherein the composition releases heat when an ambient temperature is about 5°C to about -15°C.
- 2. (Original) The composition of claim 1, wherein the composition is biodegradable.
- 3. (Original) The composition of claim 1, wherein the composition comprises particles.
- (Original) The composition of claim 1, wherein the composition comprises solid particles.
- (Original) The composition of claim 1, wherein the composition comprises nanoparticles.
- (Original) The composition of claim 1, wherein the composition comprises particles having a molecular weight of from about 20,000 to about 50,000,000.

- (Original) The composition of claim 1, wherein the composition comprises particles having an average diameter of from about 2 nanometers to about 1000 nanometers.
- (Original) The composition of claim 1, wherein the composition comprises particles having an average diameter of from about 200 nanometers to about 500 nanometers.
- (Original) The composition of claim 1, wherein the composition comprises particles having an average diameter of from about 100 nanometers to about 200 nanometers.
- (Original) The composition of claim 1, wherein the composition comprises particles
 having an average diameter of from about 2 nanometers to about 200 nanometers.
- (Original) The composition of claim 1, wherein the composition comprises particles having an average diameter of less than about 1000 nanometers.
- (Original) The composition of claim 1, wherein the composition comprises particles having an average diameter of less than about 500 nanometers.
- (Original) The composition of claim 1, wherein the composition comprises particles having an average diameter of less than about 200 nanometers.
- (Original) The composition of claim 1, wherein the composition releases heat when an ambient temperature is about 3°C to about -14°C.
- (Original) The composition of claim 1, wherein the composition releases heat when an ambient temperature is about 1°C to about -15°C.
- (Original) The composition of claim 1, wherein the composition releases heat when an ambient temperature is less than about -5°C.

- (Original) The composition of claim 1, wherein the composition releases heat when an ambient temperature is less than about -10°C.
- 18. (Currently Amended) A mixture comprising a polymer composition prepared from a plurality of materials comprising a multifunctional hydrophilic monomer with 2 or more functionalities, and comprising at least 2 acrylic groups but less than 5 acrylic groups and not more than 11 hydroxyl groups, a processing aid, a soybean protein composition, and a polyethoxy methacrylate, said multifunctional hydrophilic monomer contributing approximately 0.1 percent to approximately 10 percent by dry weight of said polymer composition, said processing aid contributing approximately 1 percent to approximately 10 percent by dry weight of said polymer composition, and said polyethoxy methacrylate contributing up to a balance by dry weight of said polymer composition, wherein the composition releases heat when an ambient temperature is about 5°C to about -15°C.
- 19. (Original) The mixture of claim 18, further comprising water.
- (Original) The mixture of claim 18, further comprising water, said water contributing approximately 90 percent to approximately 99.5 percent of a total weight of said mixture.
- (Cancelled).
- 22. (Original) The mixture of claim 18, further comprising one or more components selected from a group comprising micronutrients, macronutrients, pesticides, insecticides, herbicides, rodenticides, fungicides, biocides, plant growth regulators, fertilizers, microbes, soil additives, adhesion promoting-agents, surfactants, and freezing point modifiers.

 (Withdrawn - Currently Amended) A method comprising a plurality of activities comprising:

providing a mixture comprising water and a composition prepared from a multifunctional hydrophilic monomer with 2 or more functionalities, and comprising at least 2 acrylic groups but less than 5 acrylic groups and not more than 11 hydroxyl groups a processing aid, a <u>soybean protein composition</u>, and a polyethoxy methacrylate, said multifunctional hydrophilic monomer contributing approximately 0.1 percent to approximately 10 percent by dry weight of said composition, said processing aid contributing approximately 1 percent to approximately 10 percent by dry weight of said composition, and said polyethoxy methacrylate contributing an amount up to a balance by dry weight of said composition, wherein the composition releases heat when an ambient temperature is about 5°C to about -15°C; and coating at least a portion of a surface of an object with the mixture.

- 24. (Withdrawn) The method of claim 23, wherein the object is a plant material.
- 25. (Withdrawn) The method of claim 23, wherein the object is a human.
- 26. (Withdrawn) The method of claim 23, wherein the surface is human skin.
- 27. (Withdrawn) The method of claim 23, wherein the object is an animal.
- (Withdrawn) The method of claim 23, further comprising spraying the mixture toward the surface.
- (Withdrawn) The method of claim 23, further comprising preventing formation of ice on the surface.
- (Withdrawn) The method of claim 23, further comprising preventing dehydration from the object.

- (Withdrawn) The method of claim 23, further comprising reducing dehydration from the object.
- (Withdrawn) The method of claim 23, further comprising reducing heat transfer via the surface.
- (Withdrawn) The method of claim 23, further comprising reducing mass transfer via the surface.
- (Withdrawn) The method of claim 23, further comprising reducing kinetic energy transfer to the object.